Supplementary Table 1

This table contains RNA-seq results from the genetic rescue experiment. Only the genes that their expression is significantly different between the groups are presented.

Supplementary Table 2

This table contains RNA-seq results from the antisense oligonucleotides experiments. Only the genes that their expression is significantly different between the groups are presented.

Supplementary Video

Spontaneous seizure of MECP2 duplication transgenic mouse

This video shows a spontaneous seizure from a 30-week old male *MECP2* duplication transgenic mouse during EEG recording.

Supplementary Figure 1

This figure contains the original uncropped western blots from Figure 1c,d. The black frames denote how the gels were cropped for the final figure.

Supplementary Figure 2

This figure contains the original uncropped western blots from Figure 3e,d. The black frames denote how the gels were cropped for the final figure.

Supplementary Figure 3

This figure contains the original uncropped western blots from Extended Data Figure 1b. The black frames denote how the gels were cropped for the final figure.

Supplementary Figure 4

This figure contains the original uncropped western blots from Extended Data Figure 5c,d. The black frames denote how the gels were cropped for the final figure.